RAW SEQUENCE LISTING

EFS

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Application Serial Number:	08/434,105A
Source:	IFW/b,
Date Processed by STIC:	3/14/07

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IFW16

RAW SEQUENCE LISTING DATE: 03/14/2007
PATENT APPLICATION: US/08/434,105A TIME: 14:54:04

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3 <110> APPLICANT: Fischhoff, et al.
      5 <120> TITLE OF INVENTION: SYNTHETIC PLANT GENES AND METHOD FOR PREPARATION
      7 <130> FILE REFERENCE: 28079/41786
      9 <140> CURRENT APPLICATION NUMBER: US 08/434,105A
     10 <141> CURRENT FILING DATE: 1995-05-03
     12 <150> PRIOR APPLICATION NUMBER: US 07/959,506
     13 <151> PRIOR FILING DATE: 1992-10-09
     15 <150> PRIOR APPLICATION NUMBER: US 07/476,661
     16 <151> PRIOR FILING DATE: 1990-02-12
     18 <150> PRIOR APPLICATION NUMBER: US 07/315,355
     19 <151> PRIOR FILING DATE: 1989-02-24
     21 <160> NUMBER OF SEQ ID NOS: 40
     23 <170> SOFTWARE: PatentIn version 3.3
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     26 <211> LENGTH: 1743
     27 <212> TYPE: DNA
     28 <213> ORGANISM: Artificial sequence
     30 <220> FEATURE:
     31 <223> OTHER INFORMATION: Synthetic nucleotide sequence encoding Btk HD-1 insecticidal
protein
     32
              (cry1Ab), described in Example 1, and set forth in the lower line of
     33
              Figure 2
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                                                                              120
     40 atttttggtc cctctcaatg ggacgcattt cttgtacaaa ttgaacagct catcaaccag
                                                                              180
     42 agaatcgaag agttcgctag gaatcaagcc atttctagat tagaaggact aagcaatctt
                                                                              240
     44 tatcaaattt acgcagaatc ttttagagag tgggaagcag atcctactaa tccagcatta
                                                                              300
     46 agagaagaga tgcgtattca attcaatgac atgaacagtg cccttacaac cgctattcct
                                                                              360
     48 ctttttgcag ttcaaaatta tcaagttcct ctcctctccg tgtacgttca agctgccaac
                                                                              420
     50 ctccacctct cagttttgag agatgtttca gtgtttggac aaaggtgggg atttgatgcc
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     52 gcgactatca atagtcgtta taatgattta actaggctta ttggcaacta tacagatcat
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     56 atcaggtaca accagttcag aagagagctt acactaactg tattagatat cgtttctcta
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     58 tttccgaact atgatagtag aacgtatcca attcgaacag tttcccaatt aacaaqaqaa
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     60 atttatacaa acccagtatt agaaaatttt gatggtagtt ttcgaggctc ggctcagggc
                                                                              780
     62 atagaaggaa gtattaggag tccacatttg atggatatac ttaatagtat aaccatctat
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     64 acggatgete atagaggaga atactactgg teeggteace agateatgge tteteetgta
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     66 gggttttcgg ggccagaatt cacttttccg ctatatggaa ctatgggaaa tgcagctcca
                                                                              960
     68 caacaacgta ttgttgctca actaggtcag ggcgtgtata gaacattatc gtccacctta
                                                                             1020
     70 tatagaagac cttttaacat cgggatcaac aaccaacaac tatctgttct tgacgggaca
                                                                             1080
     72 gaatttgett atggaacete etcaaatttg ceateegetg tatacagaaa aageggaacg
                                                                             1140
     74 gtagattege tggatgaaat acegecacag aataacaacg tgccacctag gcaaggattt
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76 agtcatcgat taagccatgt ttcaatgttt cgttcaggct ttagtaatag tagtgtaagt 1260

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80 ccttcatcac aaatcaccca aatcccactc accaaqtcta ctaatcttqq ctctqqaact
                                                                        1380
82 tctgtcgtta aaggaccagg atttacagga ggagatattc ttcgaagaac ttcacctggc
                                                                        1440
84 cagatttcaa ccttaagagt aaatattact gcaccattat cacaaagata tcgggtaaga
                                                                        1500
86 attegetacg cttctaccac aaacettcag ttccacacat caattqacqq aaqacetatt
                                                                        1560
88 aatcagggga atttttcagc aactatgagt agtgggagta atttacagtc cggaagcttt
                                                                        1620
90 aggactgtag gttttactac tccgtttaac ttttcaaatg gatcaagtgt atttacgtta
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99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Native Btk HD-1 nucleotide sequence encoding Btk HD-1 toxin
104
          protein (Cry1Ab) from amino acid 29-607 as described in Example 1
105
          & set forth in the upper line of Figure 2, & includes synthetic
106
          sequence encoding N-terminal Met-Ala
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113 atttttggtc cctctcaatg ggacgcattt cttgtacaaa ttgaacagtt aattaaccaa
                                                                          180
115 agaatagaag aattegetag gaaccaagee atttetagat tagaaggaet aagcaatett
                                                                          240
117 tatcaaattt acgcagaatc ttttagagag tgggaagcag atcctactaa tccagcatta
                                                                          300
119 agagaagaga tgcgtattca attcaatgac atgaacagtg cccttacaac cgctattcct
                                                                          360
121 ctttttgcag ttcaaaatta tcaagttcct cttttatcag tatatgttca agctgcaaat
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123 ttacatttat cagttttgag agatgtttca gtgtttggac aaaggtgggg atttgatgcc
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125 gcgactatca atagtcgtta taatgattta actaggctta ttggcaacta tacagatcat
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131 tttccgaact atgatagtag aacgtatcca attcgaacag tttcccaatt aacaagagaa
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133 atttatacaa acccagtatt agaaaatttt gatggtagtt ttcgaggctc ggctcagggc
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135 atagaaggaa gtattaggag tccacatttg atggatatac ttaatagtat aaccatctat
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137 acggatgete atagaggaga atattattgg teagggeate aaataatgge tteteetgta
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139 gggttttcgg ggccagaatt cacttttccg ctatatggaa ctatqggaaa tgcagctcca
                                                                          960
141 caacaacgta ttgttgctca actaggtcag ggcgtgtata gaacattatc gtccacctta
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143 tatagaagac cttttaatat agggataaat aatcaacaac tatctgttct tgacgggaca
                                                                         1080
145 gaatttgett atggaacete etcaaatttg ceateegetg tatacagaaa aageggaaeg
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147 gtagattege tggatgaaat accgccacag aataacaacg tgccacctag gcaaggattt
                                                                         1200
149 agtcatcgat taagccatgt ttcaatgttt cgttcaggct ttagtaatag tagtgtaagt
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153 ccttcatcac aaattacaca aataccttta acaaaatcta ctaatcttgg ctctggaact
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155 tctgtcgtta aaggaccagg atttacagga ggagatattc ttcgaagaac ttcacctggc
                                                                         1440
157 cagatttcaa cettaagagt aaatattaet geaceattat cacaaagata tegggtaaga
                                                                         1500
159 attogctacg cttctaccac aaatttacaa ttccatacat caattgacgg aagacctatt
                                                                         1560
161 aatcagggga atttttcagc aactatgagt agtgggagta atttacagtc cqgaagcttt
                                                                         1620
163 aggactgtag gttttactac tccgtttaac ttttcaaatq qatcaaqtqt atttacgtta
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165 agtgctcatg tcttcaattc aggcaatgaa gtttatatag atcgaattga atttgttccg
                                                                         1740
167 qca
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254 <400> SEQUENCE: 4

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                                                                          120
259 tegetaaege aatttetttt gagtgaattt gtteeeggtg etggatttgt gttaggaeta
                                                                          180
261 gttgatataa tatggggaat ttttggtccc tctcaatggg acgcatttct tgtacaaatt
                                                                          240
263 gaacagttaa ttaaccaaag aatagaagaa ttcgctagga accaagccat ttctagatta
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265 gaaggactaa gcaatcttta tcaaatttac gcagaatctt ttagagagtg ggaagcagat
                                                                          360
267 cctactaatc cagcattaag agaagagatg cgtattcaat tcaatgacat gaacagtgcc
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269 cttacaaccg ctattcctct ttttgcagtt caaaattatc aagttcctct tttatcagta
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271 tatgttcaag ctgcaaattt acatttatca gttttgagag atgtttcagt gtttggacaa
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273 aggtggggat ttgatgccgc gactatcaat agtcgttata atgatttaac taggcttatt
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275 ggcaactata cagatcatgc tgtacgctgg tacaatacgg gattagagcg tgtatgggga
                                                                          660
277 coqqattcta qaqattqqat aaqatataat caatttaqaa qaqaattaac actaactqta
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279 ttagatatcg tttctctatt tccgaactat gatagtagaa cgtatccaat tcgaacagtt
                                                                          780
281 tcccaattaa caagagaaat ttatacaaac ccaqtattag aaaattttga tggtagtttt
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283 cgaggctcgg ctcagggcat agaaggaagt attaggagtc cacatttgat ggatatactt
                                                                          900
285 aatagtataa ccatctatac ggatgctcat agaggagaat attattggtc agggcatcaa
                                                                          960
287 ataatggett eteetgtagg gttttegggg eeagaattea etttteeget atatggaact
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289 atgggaaatg cagctccaca acaacgtatt gttgctcaac taggtcaggg cgtgtataga
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291 acattatcgt ccaccttata tagaaqacct tttaatatag qqataaataa tcaacaacta
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293 totgttottg acgggacaga atttqcttat qqaacctcct caaatttqcc atccqctqta
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295 tacagaaaaa gcggaacggt agattcgctg gatgaaatac cgccacagaa taacaacgtg
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297 ccacctaggc aaggatttag tcatcgatta agccatgttt caatgtttcg ttcaggcttt
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299 agtaatagta gtgtaagtat aataagagct cctatgttct cttggataca tcgtagtgct 🕟
                                                                         1380
301 gaatttaata atataattee tteateacaa attacacaaa taeetttaac aaaatetaet
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303 aatettgget etggaactte tgtegttaaa ggaceaggat ttacaggagg agatattett
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305 cgaagaactt cacctggcca gatttcaacc ttaagagtaa atattactgc accattatca
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307 caaagatatc gggtaagaat tcgctacgct tctaccacaa atttacaatt ccatacatca
                                                                         1620
309 attgacggaa gacctattaa tcaggggaat ttttcagcaa ctatgagtag tgggagtaat
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311 ttacagtccg gaagctttag gactgtaggt tttactactc cgtttaactt ttcaaatgga
                                                                         1740
313 tcaagtgtat ttacgttaag tgctcatgtc ttcaattcag qcaatqaagt ttatataqat
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320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Synthetic hybrid of first 1360 bases synthetic HD-1 linked
325
          modified HD-73 sequence, described in paragraph bridging pages 53-
326
          54, and as set forth in the lower line of Figure 4
328 <400> SEQUENCE: 5
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331 gttgaagtac ttggtggaga acgcattgaa accggttaca ctcccatcga catctccttg
                                                                          120
333 tccttgacac agtttctgct cagcgagttc gtgccaggtg ctgggttcgt tctcggacta
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335 gttgacatca tctggggtat ctttggtcca tctcaatggg atgcattcct ggtgcaaatt
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339 gaaggattga gcaatctcta ccaaatctat gcagagagct tcagagagtg ggaagccgat
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341 cctactaacc cagctctccg cgaggaaatg cgtattcaat tcaacgacat gaacagcgcc
                                                                          420
343 ttgaccacag ctatcccatt gttcgcagtc cagaactacc aagttcctct cttgtccgtg
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    353 ttggacattg tgtctctctt cccgaactat gactccagaa cctaccctat ccgtacagtg
                                                                              780
    355 toccaactta coaqaqaaat ctatactaac coagttottg agaacttoqa cqqtaqotto
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    357 cgtggttctg cccaaggtat cgaaggctcc atcaggagcc cacacttgat ggacatcttg
                                                                              900
                                                                              960
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    363 atgggaaacg ccgctccaca acaacgtatc gttgctcaac taggtcaggg tgtctacaga
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    365 accttgtctt ccaccttgta cagaagaccc ttcaatatcg gtatcaacaa ccagcaactt
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    367 tecepticity acggaacaga gittegectat ggaacetett etaacitigee atecegetett
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    369 tacagaaaga geggaacegt tgatteettg gaegaaatee caccacagaa caacaatgtg
    371 ccacccagge aaggattete ccacaggttg agccacgtgt ccatgtteeg tteeggatte
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    373 aqcaacagtt ccqtqagcat catcagagct cctatgttct cttqqataca ccqtagtqct
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    375 gaqttcaaca acatcatcqc atccgatagt attactcaaa tccctqcaqt gaagggaaac
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                                                                             1860
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(Cry1Ab)
    403
              amino acids and 451-615 of Bkt HD73 (Cry1Ac) described in Example 3
    404
              and as set forth in the upper line of Figure 4
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    419 cctactaatc cagcattaag agaagagatg cgtattcaat tcaatgacat gaacagtgcc
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    435 cgaggctcgg ctcagggcat agaaggaagt attaggagtc cacatttgat ggatatactt
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VERIFICATION SUMMARY

PATENT APPLICATION: US/08/434,105A

DATE: 03/14/2007 TIME: 14:54:05

Input Set : N:\efs\03_14_07

\08434105A efs\971950 41785correctedsequencelisting.txt

Output Set: N:\CRF4\03142007\H434105A.raw

L:755 M:283 W: Missing Blank Line separator, <220> field identifier L:1913 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23